

ABSTRACT OF THE DISCLOSURE

In a photothermographic material having an image-forming layer and a protective layer on a support, (A) a nucleating agent having a particular structure is added to at least one of the layers formed on the image-forming layer side of the support and NH_4^+ content in all the layers formed on the image-forming layer side is controlled to be 0.06 mmol/m^2 or less, or (B) a nucleating agent and an organic acid compound having a particular structure are added to at least one of the layers formed on the image-forming layer side so that film surface pH is substantially unchanged. This photothermographic material is characterized by low fog, high Dmax, little increase of fog during storage and little temperature and humidity dependency upon heat development.